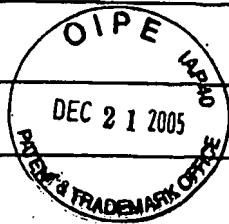


Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: December 21, 2005				ATTY DOCKET NO. 2003_1571		SERIAL NO. 10/694,343	
				APPLICANT Mitsuki OSHIMA			
				FILING DATE October 28, 2003			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AE/	AA	4,597,090	6-24-86	Forney, Jr.			
	AB	4,077,021	2-28-78	Csajka et al.			
	AC	2005/0084750	4-21-05	Wang et al.			
	AD	2005/0058633	3-17-05	Epstein et al.			
	AE	2005/0922922					
	AF	4,918,437	4-17-90	Jasinski et al.			
	AG	5,023,889	6-11-91	Divsalar et al.			
	AH	5,063,452	11-5-91	Higurashi			
	AI	5,124,852	6-23-92	Suwa et al.			
	AJ	5,136,380	8-4-92	Cho			
	AK	5,146,335	9-8-92	Kim et al.			
	AL	5,148,422	9-15-92	Sako et al.			
	AM	5,218,436	6-8-93	Sugiyama et al.			
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AN	2627574	7-21-04	CN			
	AO	1529838	5-11-05	EP			abstract
	AP	1499725	5-26-04	CN			only abstract
	AQ	2004-159207	6-3-04	JP			corresponds to AP
	AR	1528854	5-11-05	EP			only abstract
	AS	52118	12-16-02	UA			only abstract
/AE/	AT	1569334	1-26-05	CN			x
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AU						
EXAMINER				/Aslan Ettehadieh/			
				DATE CONSIDERED 08/08/2007			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: October 28, 2003

ATTY DOCKET NO.  
2003\_1571SERIAL NO.  
NEWAPPLICANT  
Mitsuaki OSHIMAFILING DATE  
October 28, 2003

GROUP

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AE/	AA	5,311,550	5-10-94	Fouche et al.			
	AB	4,630,287	12-16-86	Armstrong			
	AC	4,271,527	6-2-81	Armstrong			
	AD	5,050,188	9-17-91	Dirr			
	AE	5,398,073	3-14-95	Wei			
	AF	5,452,015	9-19-95	Hulyalkar			
	AG	5,565,932	10-15-96	Citta et al.			
	AH	5,481,412	1-2-96	Bannai et al.			
	AI	3,909,721	9-30-75	Bussgang et al.			

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	AJ	0365431	4-25-90	EP				X
	AK	0485105	5-13-92	EP			X	
	AL	92/14343	8-20-92	WO			X	
	AM	89/08366	9-8-89	WO			X	
	AN	0031193	7-1-81	EP			X	

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	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
↓	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
/AE/	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.
EXAMINER	/Aslan Ettehadieh/	
DATE CONSIDERED		08/08/2007

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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AE/	AA	4,227,152	10-7-80	Godard et al.			
	AB	4,525,846	6-25-85	Bremer et al.			
	AC	4,751,478	6-14-88	Yoshida			
	AD	4,891,806	1-2-90	Farias et al.			
	AE	4,903,125	2-20-90	Parker			
	AF	4,937,844	6-26-90	Kao			
	AG	5,164,963	11-17-92	Lawrence et al.			
	AH	5,555,275	9-1996	Oshima			
	AI	5,565,926	10-15-96	Bryan et al.			
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	AJ	0311188	4-12-89	EP			X
	AK	0329158	8-23-89	EP			X
	AL	64-5135	1-10-89	JP			X
	AM	63-28145	2-5-88	JP			X
	AN	62-133842	6-17-87	JP			X
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.					
▼	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20.					
/AE/	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.					
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AE/	AA	5,105,442	4-14-92	Wei			
	AB	4,048,572	9-13-77	Dogliotti et al.			
	AC	5,282,019	1-25-94	Basile et al.			
	AD	5,311,547	5-10-94	Wei			
	AE	5,267,021	11-30-93	Ramchandran et al.			
	AF	5,038,219	8-6-91	Yamashita et al.			
	AG	5,087,975	2-11-92	Citta et al.			
	AH	5,086,340	2-4-92	Citta et al.			
	AI	5,243,629	9-7-93	Wei			

## FOREIGN PATENT DOCUMENTS

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	AJ	53-137657	12-1-78	JP			X
	AK	0282298	9-14-88	Europe			X
	AL	0392538	10-17-90	Europe			X
	AM	0490552	6-17-92	Europe			X
	AN	0506400	9-30-92	Europe			X

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	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
✓	AP	P. Hoehner et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7
/AE/	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

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DATE CONSIDERED

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Sheet 4 of 7							
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: October 28, 2003	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">ATTY DOCKET NO. 2003_1571</td> <td style="width: 50%; padding: 2px;">SERIAL NO. NEW</td> </tr> <tr> <td colspan="2" style="padding: 2px;">APPLICANT Mitsuaki OSHIMA</td> </tr> <tr> <td style="padding: 2px;">FILING DATE October 28, 2003</td> <td style="padding: 2px;">GROUP</td> </tr> </table>	ATTY DOCKET NO. 2003_1571	SERIAL NO. NEW	APPLICANT Mitsuaki OSHIMA		FILING DATE October 28, 2003	GROUP
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APPLICANT Mitsuaki OSHIMA							
FILING DATE October 28, 2003	GROUP						
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/AE/	AA	5,142,353	8-25-92	Kageyama et al.			
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.			
	AC	5,291,289	3-1-94	Hulyalkar et al.			
	AD	5,166,924	11-24-92	Moose			
	AE	4,940,954	7-10-90	Aubert et al.			
	AF	5,128,758	7-7-92	Azadegan et al.			
	AG	5,038,402	8-6-91	Robbins			
	AH	5,638,112	6-10-97	Bestler et al.			
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	AI	0448492A1	9-25-91	Europe			
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	AK	0525641A2	2-3-93	Europe			X
	AL	0540231A2	5-5-93	Europe			X
	AM	0531046A2	3-10-93	Europe			X
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	AN	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.					
V	AO	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.					
/AE/	AP	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.					
EXAMINER				/Aslan Ettehadih/			
				DATE CONSIDERED 08/08/2007			

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Sheet 5 of 7				FORM PTO 1449 (modified)		ATTY DOCKET NO. 2003_1571		SERIAL NO. NEW	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary )  Date Submitted to PTO: October 28, 2003				APPLICANT Mitsuaki OSHIMA					
				FILING DATE October 28, 2003				GROUP	
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
/AE/	AA	5,063,445	11-5-91	Nishizawa et al.					
	AB	5,819,000	10-6-98	Oshima					
	AC	5,999,569	12-7-99	Oshima					
	AD	5,892,879	4-6-99	Oshima					
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	AE	7-99522	4-11-95	Japan			abstract		
	AF	7-79415	3-20-95	Japan			abstract		
	AG	5-75568	3-26-93	Japan			abstract		
	AH	86-07223	12-4-86	WO			X		
	AI	2 187 611	9-9-87	Great Britain			X		
	AJ	85/04541	10-10-85	WO			X		
	AK	04-196822	7-16-92	Japan			abstract		
	AL	2-166979	6-27-90	Japan			abstract		
	AM	64-74836	3-20-89	Japan			abstract		
	AN	53-108215	9-20-78	Japan			abstract		
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.							
	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.							
/AE/	AQ	English Language Abstract of European Patent No. 93 30 7575							
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U.S. DEPARTMENT OF COMMERCE  
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ATTY DOCKET NO.  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AE/	AA	4,636,876	1-13-87	Schwartz			
	AB	4,855,692	8-8-89	Kennard et al.			
	AC	4,873,701	10-10-89	Tretter			
	AD	4,958,360	9-18-90	Sari			
	AE	5,115,453	5-19-92	Calderbank et al.			
	AF	5,168,509	12-1-92	Nakamura et al.			
	AG	5,600,672	2-4-97	Oshima et al.			
	AH	6,049,651	4-11-00	Oshima			
	AI	6,256,357	7-3-01	Oshima			

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	AJ	0122805	10-24-84	EP			X	
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	AL	64-68144	3-14-89	Japan			abstract	
	AM	5-218978	8-27-93	Japan				X
	AN	3-69295	3-25-91	Japan				X

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	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
↓	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14
/AE/	AQ	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.

EXAMINER

/Aslan Ettehadieh/

DATE CONSIDERED

08/08/2007

Sheet 7 of 7							
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: October 28, 2003				ATTY DOCKET NO. 2003_1571		SERIAL NO. NEW	
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/AE/	AA	5,170,413	12-8-92	Hess et al.			
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	AD	57-39629	3-4-82	Japan			abstract
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	AJ	2-218279	8-30-90	Japan			abstract
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	AL	91/20137	12-26-91	WO			X
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	AS						
EXAMINER /Aslan Ettehadieh/				DATE CONSIDERED 08/08/2007			

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Date Submitted to PTO: July 21, 2004

ATTY DOCKET NO.  
2003\_1571SERIAL NO.  
10/694,343APPLICANT  
Mitsuaki OSHIMAFILING DATE  
October 28, 2003GROUP  
2631

## U.S. PATENT DOCUMENTS

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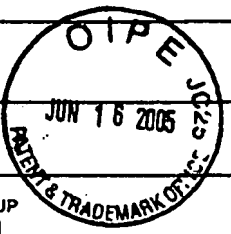
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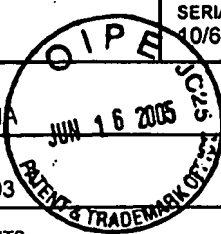

/AE/	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991
/AE/	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993
	AQ	

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/AE/	AA	3,824,548	7-16-74	Sullivan et al.					
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	AF	4,535,352	8-85	Haskell					
	AG	4,564,858	1-14-86	Resch					
	AH	4,581,639	4-8-86	Judge					
	AI	4,769,819	9-6-88	Matsutani et al.					
	AJ	4,794,447	12-27-88	Tsinberg					
	AK	4,817,192	3-28-89	Phillips et al.					
	AL	5,007,088	4-9-91	Ooi et al.					
	AM	5,029,003	7-91	Jonnalagadda					
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	AO								
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/AE/	AP	5-327807	12-10-93	Japan			abstract		
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/AE/	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991							
/AE/	AR	Ryutaro OHMOTO et al., "π/4-shift QPSK Subcarrier Transmission", 1991							
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/AE/	AA	5,181,112	1-19-93	Citta et al.			
	AB	5,377,051	12-27-94	Lane et al.			
	AC	5,400,084	3-21-95	Scarpa			
	AD	5,576,902	11-19-96	Lane et al.			
	AE	5,218,622	6-8-93	Fazel et al.			
	AF	5,561,468	10-1-96	Bryan et al.			
	AG	5,598,220	1-97	Citta et al.			
/AE/	AH	5,802,241	9-1-98	Oshima			
	AI						
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/AE/	AL	3-48587	3-1-91	Japan			abstract
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
/AE/	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
/AE/	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
/AE/	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
EXAMINER				/Aslan Ettehadieh/			
				DATE CONSIDERED 08/28/2007			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.